removed from this list for any of the following:

ALABAMA DEPARTMENT OF TRANSPORTATION PROCEDURE FOR EVALUATION AND MAINTENANCE OF

LIST II-1

CHEMICAL ADMIXTURES FOR USE IN PORTLAND CEMENT CONCRETE

1.	<u>Material:</u> Chemical admixtures for use in Portland Cement Concrete	6.5	Test data from an independent laboratory showing actual test results for all parameters required in the Department's Specifications. The Department requires results for all
2.	Specification: Sections 808 and 809 of the		compressive strength tests performed at 3, 7,
۷.	Alabama Department of Transportation's		28, 180, and 365 days.
	Specifications	6.6	Submittal and testing fees according to
	Openications -	0.0	Department procedure BMTP-355.
3.	Jurisdiction: Product Evaluation Board		
	(Concrete Section)	7.	Producer's Maintenance Requirements: Companies with products on this list will be expected to comply with the following to stay
4.	Job Acceptance Requirements: No Job		on the list:
	Control testing required if material performs	7.1	Produce the same quality of material as
	satisfactorily. Submit samples to the Central		supplied for the original evaluation.
	Laboratory if the material is suspected of being	7.2	Provide only approved materials to
	inferior.		Department projects.
		7.3	Promptly report to the Department any
_			changes in the company name or the product
5.	Project Engineer's Responsibility:		name, or changes of address or ownership of
5.1	Read and follow sections of Department	7.4	the company. Notify the Department of any changes in
	procedure BMTP-170, "Method of Controlling Concrete Operations for Structures and	7.4	production of the product. Any alteration that
	Portland Cement Concrete Pavement"		will change the product chemically or
5.2	Mixes combining an air entraining agent with a		physically will require a reevaluation of the
5.2	water reducer or retarder admixture, shall be		product.
	both from the same manufacturer. Producers		•
	of types F and G admixtures, who do not		
	manufacture air entraining agents, will be	8.	Laboratory Testing: The Department will
	allowed to combine their products with air		make selected verification tests of the product
	entraining agents from other manufacturers		to assure compliance with the Department's
	after a written request to the Concrete		Specifications. These could include any or all
	Engineer and provided the air entraining	0.4	of the following.
	agents show compatibility with these	8.1	Laboratory concrete design mix complete with
	products.	8.2	compressive strength analysis. An infrared spectrograph of the dried solids*
		8.3	The solids content of liquid admixtures*
6.	Producer's Initial Requirements:	8.4	The specific gravity of liquid admixtures*
0.	Companies wishing to have products	0.4	*Note: The marked items will be checked
	evaluated for placement on this list should		against the limits as submitted in section 6.3.
	furnish the Department's Product Evaluation		The Department uses this information to
	Engineer with the following:		decide when field samples meet the limits set
6.1	Name and address of the company producing		in the specifications.
	the product.		
6.2	Standard material safety data sheets for the		
	product.	9.	Contractors' Requirements: The prime
6.3	A certified statement giving the producers		contractor will be responsible for purchasing
	quality control limits for the following		and using only approved materials.
	parameters: specific gravity, solids content,		
0.4	and chloride content.	40	Demoval of Duadvetes Deadvete assets
6.4	A 1 liter sample of each type of material being	10.	Removal of Products: Products may be

qualified.

10.1	Mislabeling products or substitution of	
	products other than those originally evaluated.	

- 10.2 Failure to comply with any of the Department's requirements for this type of material.
- 10.3 Failure to perform satisfactorily on the job.
- 10.4 A continued pattern of failure of products to be within the quality control limits set in the specifications.

11. <u>Miscellaneous Concrete Admixtures</u>:

Products in this category do not fall into any of the Types listed in AASHTO M-194, nor AASHTO M-154.

- 11.1 Approval of materials will be based on the following:
- 11.1.1 Information and samples as required in Section 6 of this procedure shall be submitted by the Producer.
- 11.1.2 Chemical finger print testing of the product shall be conducted by the Department for future product verification.
- 11.1.3 Independent laboratory testing shall be supplied at the producers expense. All applicable test necessary to demonstrate products working properties as well as the physical properties of the finished concrete shall be conducted.
- 11.1.4 Selected verification test may be conducted by the Department to verify test results.
- 11.1.5 A minimum of 12 months of data from actual field use must be submitted.
- 11.2 Products approved for the miscellaneous category must have approval from the Materials & Test Engineer on a job by job basis prior to use. A written request from the Prime Contractor stating the reasons for using the product shall be submitted prior to approval. Products used on projects will not add additional cost to the State.
- Correspondence: All correspondence concerning this list should be directed to the following:
 Product Evaluation Board
 Alabama Department of Transportation 3704 Fairground Road
 Montgomery, AL 36110